

**ARIZONA GAME AND FISH DEPARTMENT
HABITAT PARTNERSHIP PROGRAM
HABITAT ENHANCEMENT AND WILDLIFE MANAGEMENT PROPOSAL**

PROJECT INFORMATION	
Project Title: Unit 9 Water Catchment developments	Project No. 09-211
Region/GMU: Region II	HPC: Williams
Project Type: Water Developments	
Project Description: This project will continue the efforts to provide reliable water for wildlife in Unit 9 by reconstructing catchment 999 and building a new catchment in the Upper basin where water is very scarce.	
Wildlife Species to Benefit: Elk, antelope and deer will benefit from having reliable water supplies in two areas where there are few reliable water sources.	
Possible Funding Partners:	
Implementation Schedule: Beginning: April, 2010 Completed: August 2010	NEPA Compliance: (if applicable) Completed: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Projected Completion Date:
PROJECT FUNDING	
SBG Funds Requested: \$ 90,000	
Cost Share Funds: \$ +840,000	
Total Project Costs: \$ + \$930,000	
PARTICIPANT INFORMATION	
Applicant: John Goodwin (please print) Telephone: (928) 774-5045	Address: 3500 S. Lake Mary Rd. Flagstaff, AZ. 86001
AGFD Contact and Phone No. Applicant is a Department Employee (If applicant is not AGFD personnel)	
Coordinated with: Clair Harris (RMEF), Ed Jahrke (AGFD), Kaibab National Forest personnel	Date:
Applicant's signature: John Goodwin	Date: Aug. 31, 2009

SEND COMPLETED APPLICATIONS TO:

**Game Branch
 AZ Game and Fish Dept.
 5000 W. Carefree Highway
 Phoenix, AZ 85086**

WAS PROJECT PRESENTED TO THE LOCAL HPC? YES _____ NO X

HAS PROJECT BEEN SUBMITTED IN PREVIOUS YEARS? IF SO WAS IT FUNDED?

Several portions of the water development plan for the Unit have been submitted and funded during the last few years. This proposal will continue implementing the water development plan.

NEED STATEMENT/PROBLEM ANALYSIS:

Unit 9 has few reliable earthen tanks and those usually go dry during drought years. Therefore, the water catchments built by the Department and by the Forest Service are the only reliable waters during droughts. These catchments receive extremely heavy use by wildlife during these dry periods. Many of the catchments were built with small storage tanks which required water to be hauled during these dry years. Recent work has rebuilt these small catchment to provide greater storage and larger collection aprons to make the systems self sustaining. This proposal will fund the rebuilding of an old catchment that is small and non-functioning and build a new catchment in an area with only a few water sources.

PROJECT OBJECTIVES:

Rebuild old catchment 999 with a storage capacity of +21,000 gallons and a 96' apron to collect water.
Build a new catchment at "Site T" in the Forest Service EA which is in the Upper Basin.

PROJECT STRATEGIES:

Build catchment with a large collection apron and sufficient storage to be self sufficient water sources in all but the driest years.

PROJECT LOCATION:

Catchment 999 T. 30 N., R. 3 E., Sec. 21
Site T T. 30 N., R. 5 E., Sec. 29

LAND OWNERSHIP AT PROJECT SITE (Please state specifically if PRIVATE PROPERTY and provide landowner's name):

Both catchments are on Kaibab National Forest

IF PRIVATE PROPERTY, IS THERE A STEWARDSHIP AGREEMENT BETWEEN THE LANDOWNER AND THE DEPARTMENT?

HABITAT DESCRIPTION:

Catchment 999 is in ponderosa pine habitat mixed with Gambel oak at approximately 7000' elevation.

Site T is in pinyon-juniper habitat mixed with sagebrush at about 6700'.

ITEMIZED USE OF FUNDS: SBG funds will purchase the materials for these two catchments.

Applicant will order materials through the existing Department vendors. Six storage tanks (\$3,600 ea.) and two drinkers (\$3,200 ea.) will be ordered through Zia Tanks. Steel pipe and apron materials will come from Thorson/Keenan in Phoenix. Concrete will come from Ace Hardware in Flagstaff. Other materials will come from various vendors. Current estimates of catchment materials are \$45,000 for a 3 tank, 96' apron system.

Volunteer labor from RMEF and other groups will provide the bulk of the labor. Department personnel will supervise the construction.

Reconstruction of 9 catchments have been accomplished at a cost of approximately \$400,000. A pipeline west of Tusayan and the 6 catchments fed by the pipeline have cost +\$ 280,000. Volunteer labor for the catchment projects is valued at + \$160,000.

LIST COOPERATORS AND DESCRIBE POTENTIAL PARTICIPATION:

Department personnel will order materials and supervise the construction.

Bohunk Excavating will donate the heavy equipment work to dig the holes for the storage tanks and drinker. Unisource will provide the welders to weld fence and other system components.

RMEF, Coconino Sportsmen, and other groups will provide most of the labor for the construction.

PROJECT MONITORING PLAN:

Department personnel will monitor the water levels in the catchments, amount of use by wildlife, maintenance needs and report to the Department's development branch if any maintenance needs arise or if water needs to be hauled. The Unit Wildlife Manager will be the primary person responsible for monitoring.

PROJECT MAINTENANCE:

The Department's Development Branch will be responsible for ensuring maintenance is done. This may be accomplished by Department personnel, contractors or by volunteers.

PROJECT COMPLETION REPORT TO BE FILED BY: Region II Landowner Relations Program Coordinator (john Goodwin).

WATER DEVELOPMENT PROJECTS (see attached worksheet):

TREE SHEARING (AGRA-AXE, PUSH) PROJECTS (see attached worksheet):

ARIZONA GAME AND FISH DEPARTMENT **WATER DEVELOPMENT WORKSHEET**

PROJECT NAME: Unit 9 Water Catchment Developments

- 1) **Is the water development listed as a priority in the most recent “Wildlife Water Development Annual Implementation Schedule?”** Yes
- 2) **Please list the Development Branch personnel and date coordinated with for this project.**
Ed Jahrke 8/09.
- 3) **What is the estimated annual inches of precipitation for the area? (mark one)**
 2-4 4-6 6-8 8-10 10-12 X 12-14 14-16 >16
- 4) **Is there a perennial water source available to big game within four miles of this project?**
 X YES (please complete #5 below) NO (skip #5 below)
- 5) **For the accessible, perennial water source nearest this project:**
Name of water source: Catchments 254and 1019
Type of water source (catchment, spring, dirt tank, etc.): water catchments
Ownership of water source: AGFD
Distance in miles from project: 2-3 miles.
- 6) **Is the target wildlife species a result of transplant efforts?** YES X NO
- 7) **Please list any special land management status for the project site (i.e. Wilderness, National Park, National Monument, etc). If private land, list landowner. Catchments are on Kaibab National Forest but the areas have no special status.**
- 8) **Please provide the following information about access to the proposed site:**
Type of access (mark one): X 2x4 vehicles 4x4 only foot only**
 **If foot access only: Distance in miles: Approx. hiking time:

-- Does access to this site require crossing private or tribal lands? YES X NO

-- Please describe any restrictions to public access: none
- 9) **Please list below (or on a separate sheet) the material type and dimensions of each component proposed to be added, modified, or repaired.**
At each site, install 3 storage tanks of about 7100 gallons each, on elk style drinker and a 24' X 96' collection apron. A 42" tall pipe rail fence (about 150' X 150") will surround the catchment site to exclude livestock. An 8' tall mesh wire fence will surround the apron to exclude large animals from walking on the apron.

10) Was a site visit completed? ☒ Yes ☐ No

If Yes, please list personnel that attended and date. Forest Service personnel conducted plant and archaeology surveys of the site in 2007-08. Department personnel Matt Bratz and John Goodwin selected the site in 2006 after consultation with Joe Currie and Ed Jahrke in Development Branch.